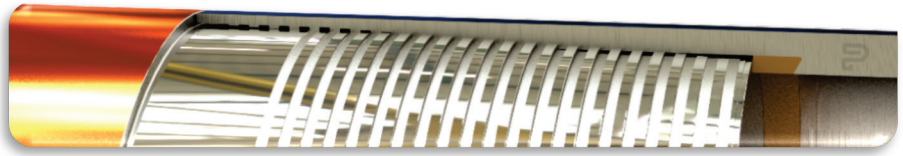
PRECISION

HYDRA



# HYDRA CBR 5in. x 18 lb/ft CYP-110 Flush Joint

## Pipe Body

| | | |
|---|---|---|
| Nominal OD | 5.000 | inches |
| Nominal Weight | 18.00 | lb/ft |
| Wall Thickness | 0.362 | inches |
| Plain End Weight | 17.95 | lb/ft |
| Standard Drift | 4.151 | inches |
| Nominal ID | 4.276 | inches |
| Grade | CYP-110 | |
| Min Yield | 110,000 | lbf/in² |
| Min Tensile | 125,000 | lbf/in² |
| Critical Section Area | 5.275 | in² |
| Pipe Body Yield Strength | 580 | kips |
| Min Internal Yield Pressure | 13,940 | psi |
| Collapse Pressure | 13,470 | psi |

## Connection with Corrosion Barrier Ring

| | | |
|---|---|---|
| Connection OD | 5.000 | inches |
| Make Up Loss | 4.625 | inches |
| Critical Section Area | 3.165 | in² |
| Internal Pressure Rating | 11,150 | psi |
| External Pressure Rating | 13,470 | psi |
| Tension Efficiency | 60% | |
| Connection Strength | 348 | kips |
| Compression Efficiency | 348 | kips |
| Uniaxial Bend Rating | 64 | ° / 100 ft |
| Reference Depth | 12,925 | Ft. |
| Optimal Make Up Torque | 3,550 | ft-lbs |
| Min | 3,200 | ft-lbs |
| Max | 3,900 | ft-lbs |

v1.0 9/2/2020



The performance properties in these data tables are calculated per API 5C3. Calculations are based on nominal wall thickness. Loads do not reflect a design safety factor for walls thinner than nominal or other defects. Reference Depth = Connection Strength/ (PE Wt./Ft)*(1.5). Refernce Depth includes a 1.5 design factor. However, it does not consider bending, temperature, bouyancy or other load considerations.

PRECISION

HYDRA

## Torque Data Sheet - HYDRA with Corrosion Barrier Ring

HYDRA CBR 5in. x 18 lb/ft CYP-110 Flush Joint

| | | |
|---|---|---|
| Min Make Up Torque | 3,200 | ft-lbs |
| Max Make Up Torque | 3,900 | ft-lbs |
| Optimum Torque | 3,550 | ft-lbs |

| | | |
|---|---|---|
| Nom Shoulder Torque | 500 | ft-lbs |